

2.8 p. 125129

## The Roles of Slope and Intercepts

## Equation of the Line

$$y = mx + b$$

m is the steepness of the line  
the greater the magnitude the steeper the line  
positive slope = + value (up and to the right)  
negative slope = - value (down and to the right)  
m = slope (rate of change)

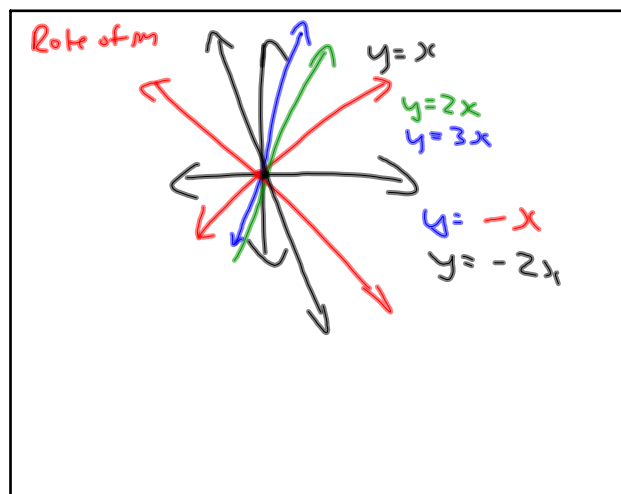
b = y intercept (point at which the line crosses the y axis)

Demonstrate role of m and b using TI83

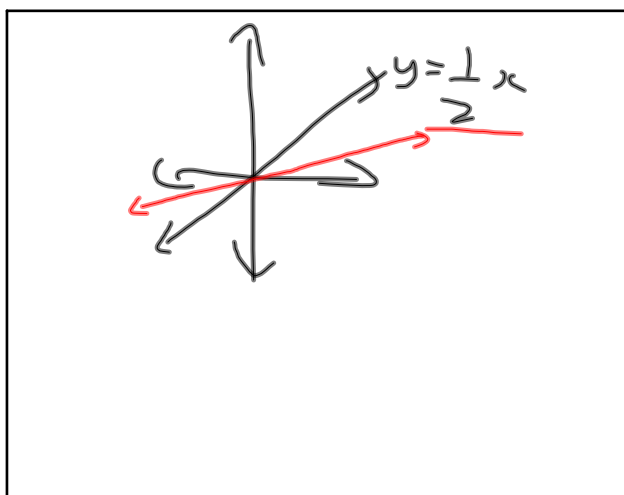
## Intercepts

Point at which the line crosses the x axis (x intercept)  $y = 0$   
and y axis (y intercept)  $x = 0$   
Graphed by Substitution

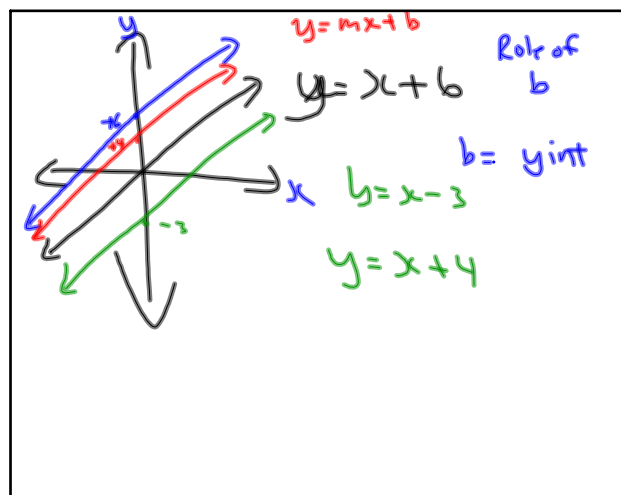
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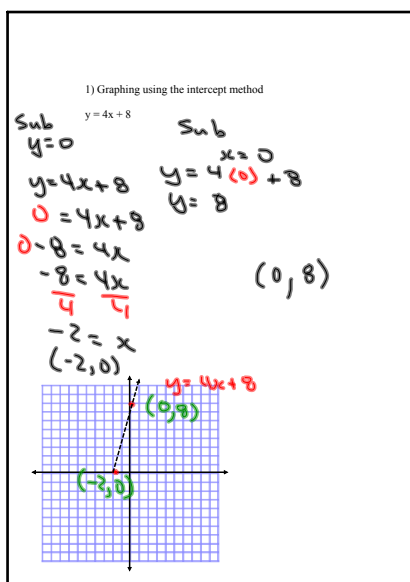
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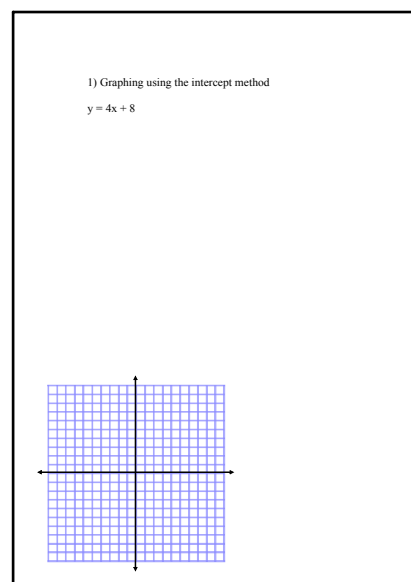
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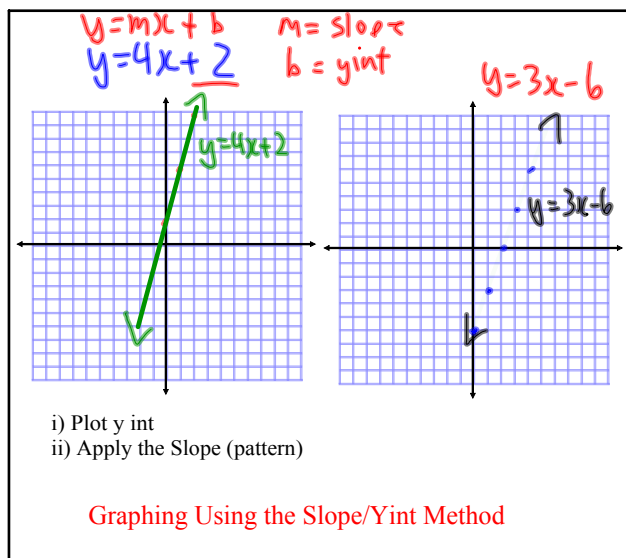
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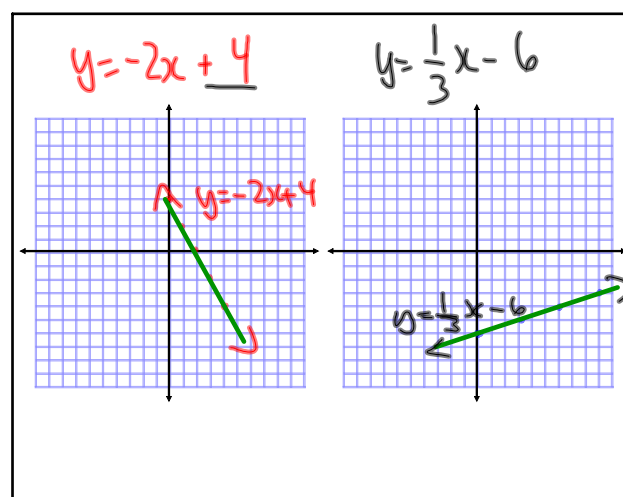
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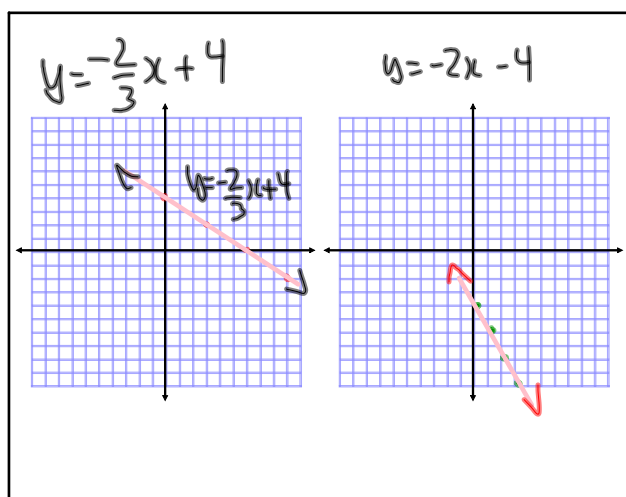
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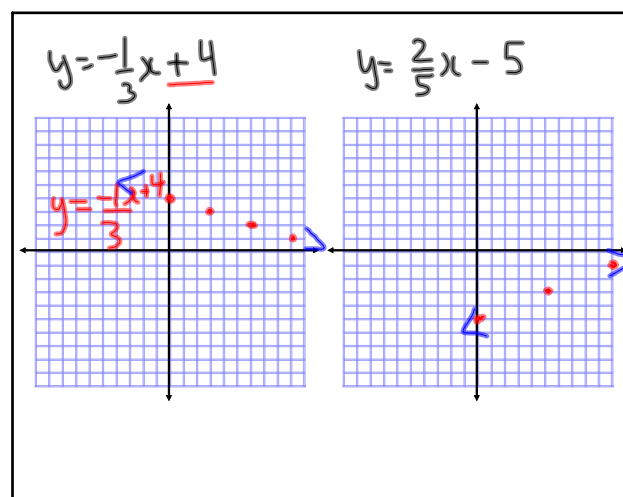
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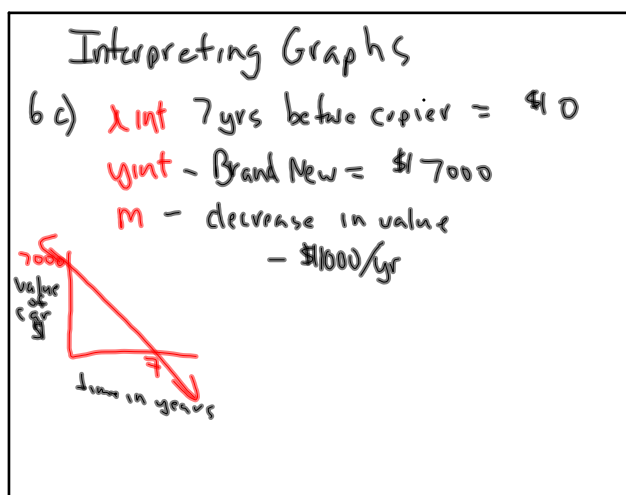
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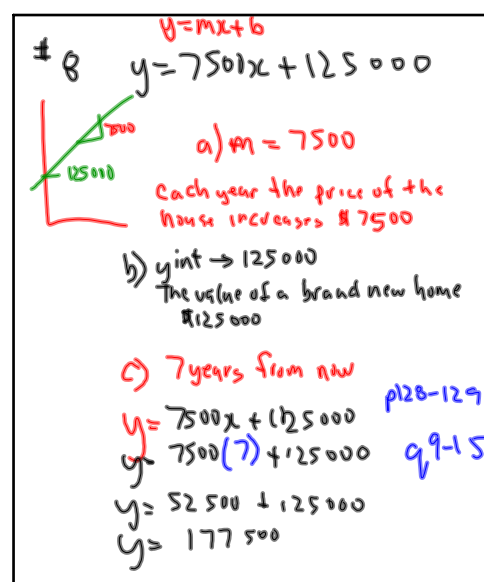
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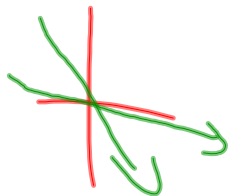


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